



RAN-2503230202040004

PGDMLT (Sem.- II) Examination October - 2025

Blood banking and Histo-Cytological Techniques (Paper : 2004 - A)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) All Questions are Compulsory
- (3) Draw Diagrams Wherever Necessary

Seat No.:

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Student's Signature

Q. 1. Answer in short (Any Seven)

(14)

1. Give full form of DAT and IAT.
2. Define Fixation and Decalcification in tissue processing
3. What is a transfusion reaction?
4. Define homozygous and heterozygous.
5. State the importance of cross matching.
6. What is microtome? Enlist the types.
7. Note down the antigens of Duffy blood group.
8. Enlist mandatory screening tests for blood-bank.

Q. 2. Answer in brief (Any Two)

(14)

1. Discuss Bombay blood group and its detection in detail.
2. What is ABO blood group? Discuss the inheritance of ABO antigens.
3. What do you understand by reverse grouping? Discuss the method.

Q. 3. Answer in brief (Any Two)

(14)

1. Give brief discussion on selection and rejection criteria of blood donors.
2. Enlist and explain the mandatory screening test for blood donors.
3. What is FFP? Explain the technique for its preparation and its significance.

Q. 4. Write a short note on (Any Two)

(14)

- 1) What is AHG? Discuss its role in compatibility testing.
- 2) Non-haemolytic transfusion reactions.
- 3) Emergency cross-matching

Q. 5. Write a short note on (Any Two)

(14)

1. What is Tissue processing? Discuss dehydration step in detail
2. Types of microtomes.
3. Write in detail: FNAC